

~~BACKGROUND PAPER~~

ON

SPADOC ACQUISITION PROGRAM

1. PURPOSE. To provide background and status for the SPADOC acquisition program.

2. BACKGROUND. The Space Defense Operations Center (SPADOC) was activated on 1 October 1979 in the NMCC and is being operated by ADCOM.

a. SPADOC, Phase 1-3 (FY 80-84). ADCOM staff is implementing by:

(1) Fusing existing capabilities (e.g., SPADATS, Space Computation Center and IDHS support).

(2) Interfacing all U.S. military, civil and domestic space systems with SPADOC to create a national focal point for all space defense matters.

(3) Establishing space defense procedures (e.g., EAP with NMCC warning, notification to owners/operators).

(4) Developing countermeasure concepts and procedures with satellite owners/operators and implementing laser emission clearing-house function.

(5) Expanding its present functional capability, limited by manpower and equipment constraints.

b. SPADOC, Phase 4 (FY 85-87) a major system acquisition program is being led by two AFSC SPOs:

(1) Space Division (SD) is prime manager for the overall Space Defense System Program, which includes the Space Defense Command and Control System (SPADCCS) and its hub, the SPADOC.

(2) Electronics Systems Division (ESD) has been tasked by SD as a "subcontractor" to acquire the SPADOC. These acquisitions include ADPE, communications and data base management hardware/software to automate the SPADOC function.

3. STATUS. The currently proposed SPADOC acquisition program being developed by AFSC (SD and ESD) contains the following major elements:

a. SPADOC, Phase 1-3.

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(1) Minicomputers acquired to facilitate space status maintenance and data base organization. These may be incorporated in the Phase 4 system or be replaced by Phase 4 acquisition.

(2) Communications upgraded to better utilize the owner/operator interfaces now being developed. This comm upgrade will be compatible with Phase 4 communications.

(3) Support to SPADOC in preparation of PHALS Flight Test.

b. SPADOC, Phase 4.

(1) Procure new computer processors and software (Blocks A & B) to enable SPADOC to semiautomatically maintain dynamic data bases, generate warning messages and support countermeasures message traffic and status keeping. The processing capability procured would be capable of growth as the mission evolves. This new system would rely heavily on the CSS as well as the SCC and IDHS. If the McMillan Study ADPE acquisition recommendations are approved, these Block A & B computer acquisitions would be modified to accommodate the new acquisition strategy.

(3) Subsequent SPADOC blocks would be defined later for the following capabilities:

(a) Upgrade the current SCC computer as directed by approved McMillan Study recommendations.

(b) Make the upgraded FMDC capable of fully supporting the FOC PHALS program by FY 88.

(c) Procure a fully capable MDC (including all weapon systems) or expand the upgraded FMDC to handle the entire proposed force mixture of ASAT weapons.

c. AFSC (SD/TMCC and ESD/OCT-4) will formally present their SPADOC acquisition approach to the ADC staff on 27 October 1980. The consequence of the current rescoping and recosting effort (to stay within a \$100 million budget) is a delay in the release of the initial

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suspend RFF until February 1952. The impact on SPADOC acquisitions planning caused by the expected SNAAC restrictions of the "Black" program and/or the SPADOC/DOC/IDAF RFF Study (McMillan Study) should readily be accommodated in the new RFF Release schedule.

ACTION OFFICER: MR. WILLIAM E. LINDEMAN, AFCE, 3037 DATE: 15 OCT 1951

ADMINISTRATOR: ORIGINAL SIGNED DATE: 15 OCT 1951

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and Requirements